

Project Summary and Justification

Department Finance

Division Communications

Project 1 Remodel of City Radio Shop

The existing City Radio Shop is located at 2540 Fair Street and has limited space. Current design of the building will not provide for working space for all technicians in 2006 or adequate storage for product and parts inventory. Funding of this project would include an addition to the existing structure and equipping the Shop with ergonomic workbenches and workstations for all staff to efficiently reuse the existing space. Funding for this project would provide the staff with the essentially needed space, repairs and furnishings as an interim measure until Project 4 can be accomplished. Primary goal is to relocate the Radio Shop in a multi-agency facility with the Emergency Communications Center and other public safety entities. This relocation should be part of a multi-year project for relocation of the City Radio Shop and the Emergency Communications Center (see Project 4). Once Project 4 is completed the existing Shop could continue to be used for scheduled installations and storage of spare site equipment.

Project 2 Digital Communications Upgrade

The ongoing need for digital, secure radio communication coupled with Federal grant funding has allowed many of the Lincoln Emergency Communications Center's User Agencies to purchase upgraded (new) radio equipment with digital capabilities. Most of these agencies interface with Lincoln 911 on a daily, continuous basis. While agencies such as Lincoln's Police and Fire Department are able to use new equipment for secured communications internally within their departments, the capability of secured digital communication into Lincoln's 911 Center is extremely limited. To meet the strategic goals of several agencies, Lincoln 911 needs to increase the capacity for digital voice communications at the Primary Communications Center, as well as add digital capability to the Back-up 911 Center.

Project 3 Remodel of Emergency Communications/911 Center

The existing Emergency Communications/911 Center located at 575 South 10th Street was constructed as remodeled space in 1996 with occupancy in early 1997. With 24 x 7 use as well as increases in number of staff and correlating support staff needs, it is anticipated that the facilities will be in need of major remodeling or relocation in the future (see Project 4). Replacement of the existing air handling units and other essential repairs must occur without dependence upon Project 4 funding. Included in this project is replacement of existing calltake/dispatch consoles with consoles that address the ergonomic and environmental needs of a dispatcher. The replacement consoles are modular and if in good repair could be moved to a new facility at a future date (See Project 4).

Project 4 Emergency Communication Center/Radio Shop Facility

The growth of the City's boundaries, service population, User Agency staff and a commitment to provide all of public safety and our community with a high level of service makes it necessary to relocate and expand the facilities currently available to the Emergency Communications Center and Radio Shop.

Proposed is: The acquisition, design, site work and construction of a multi-agency public safety facility. Primary goals are to locate with a Lincoln Police Department Assembly Station as well as the Lancaster County Emergency Management Operating Center and Public Works Traffic Management Center.

Project Summary and Justification (cont.)

Department	Finance
Division	Communications

The new facility would provide adequate space for joint operations between Emergency Communications, Traffic Management, Emergency Management and the Lincoln Police Department. Essential to this design will be adequate space for dispatch operations as well as administrative space for the Emergency Communications Training Academy, and other administrative disciplines. The facility will need state of the art connectivity and adequate space for technology systems to support radio, telephone, and computer aided dispatch. A project of this magnitude will require planning for the least amount of disruption to public safety communications. It would be highly advantageous and highly recommended to execute Project 5 of this CIP concurrently with a new Communications facility.

At time of this submission the Emergency Communications Center is working with the Parks and Recreation Department on the Master Plan for Jensen Park located at 91st/Yankee Hill Road. The Emergency Communications Center currently has communications assets at Jensen Park and this location appears to be a good site for Communications operations.

Phase 1: It is the intent of the Emergency Communications Division to seek professional planning and design services to determine the space needs, adjacencies, site requirements and construction costs in the form of a Master Plan. A site would be determined during this Phase of the Project.

Program development costs are projected to be in the \$40,000 range. Funding for this phase of the project would be General Fund Capital Improvement Project funds.

Phase 2: The acquisition, improvement, design and construction of the Emergency Communications multi-agency facility. This phase would likely begin in fiscal year 2009/2010.

Phase 3: The finish construction, furnishing and equipping of the Emergency Communication multi-agency facility would likely carry over to fiscal year 2010/2011 based on a 10 to 12 month construction timeline.

Project 5 800 Mhz Trunked Radio System Upgrade

The City of Lincoln’s 800 Mhz Trunked Radio System was initially installed as a 10 channel, single site system utilizing funding from a 1986 bond issue. In 1996 the citizens of Lincoln approved a bond funding Phase 2 of the Radio System which provided for an upgrade of the existing site equipment as well as addition of a second site and an increase to 20 channels. The radio system will require a major backbone upgrade consistent with previous upgrades with replacement of dispatch consoles, site equipment and other auxiliary equipment. An upgrade of this magnitude must be planned and executed carefully to cause the least disruption of service as possible for public safety as well as other users of the system. This could be accomplished by linking this project with Emergency Communications/Project 4.

Project Summary and Justification (cont.)

Department	Finance
Division	Communications

Project 6 Public Safety Responder Locating Project

The Lincoln Emergency Communications Center provides dispatch service for three primary public safety agencies, the Lincoln Police Department, Lancaster County Sheriff’s Office, and Lincoln Fire & Rescue. Past projects have put the Center in the position to take the Computer Aided Dispatch System (CAD) system to the next level, with closest unit recommendation based upon latitude and longitude. This project will equip the responding unit fleet and also provide software upgrades to the existing CAD and Mobile Data Systems.

Project 7 Communications Command Post

The Lincoln Emergency Communications Center provides communications support for radio for the City’s 800 Mhz trunked radio system as well as various other frequencies and communications systems utilized by area Public Safety User agencies. The Emergency Communications Incident Dispatch Team and Radio Shop provide vital support for User agencies for routine incidents as well as major events and incidents. To provide this support in the field the Center requires a Communications Command Post vehicle for staff and infrastructure support in the field.

Project 8 Emergency Notification System

Systems such as REVERSE 911® utilize a communications solution using a combination of database and GIS mapping technologies to deliver outbound notifications in emergency situations. Users can quickly target a precise geographic area and saturate it with thousands of calls per hour. The system's interactive technology provides immediate interaction with recipients and aids in rapid response to specific needs. This type of system would allow the Lincoln Emergency Communications Center to broadcast emergency information via existing wire and wireless infrastructure to reach a large geographical area and number of citizens.



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Lincoln's Future Service Limit Shown as Grey

Map prepared by
City - Co. Planning Dept
GIS Section



M I L E S
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- Project 1 is located at the City Radio Shop (2540 Fair St).
- Projects 3,6,8 are located at the 911 Communications Center (575 South 10th St).
- Project 2 is located at Fire Station 14
- Projects 4,5 are at a site yet to be determined
- Project 7 is not shown on map.

List of Projects

Department: Finance/Communications

Project
Number Project Title

- 1 Remodel of City Radio Shop
- 2 Digital Communications Upgrade
- 3 Remodel of Emergency Communications/911 Center
- 4 Emergency Communications Center/Radio Shop Facility
- 5 800 Mhz Trunked Radio System Upgrade
- 6 Public Safety Responder Locating Project
- 7* Communications Command Post
- 8 Emergency Notification System

*Indicates project is NOT shown on the map.

2006 - 2012 CAPITAL IMPROVEMENT PROGRAM

DEPARTMENT: FINANCE
 DIVISION: COMMUNICATIONS

FORM A

(1)	(2)	(3)	(4)													
PROJ. NO.	PROJECT TITLE	PROJ. Prio.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)													
			2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS	2010-2011	FS	2011-2012	FS		
1	Remodel of City Radio Shop	A			275.0	GR										
2	Digital Communications Upgrade	A			275.0	GR										
3	Remodel of Emergency Communication Cen	B			750.0	GR										
4	Emergency Comm Center/Radio Shop	B						40.0	GR							
5	800 Mhz Trunked Radio System Upgrade	B										5,000.0	GR			
6	Public Safety Responder Locating Project	B						325.0	GR							
7	Communications Command Post	B			400.0	GR										
8	Emergency Notification System	B			200.0	GR										
FUNDING SOURCE BREAKDOWN:																
GR (General Revenue)				0.0	1,900.0		365.0		0.0		5,000.0		0.0			
DEPARTMENT TOTAL:				0.0	1,900.0		365.0		0.0		5,000.0		0.0			

(5)	(6)	(7)		(8)	(9)	(10)	(11)					(1)
SIX YEARS (000's)	COST BEYOND 2011-2012 (000's)	PRIOR APPROPRIATIONS (000's)	YEAR FS	TOTAL CAP COSTS (000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)					PROJ. NO.
							PRELIM PLANS	FINAL PLANS	LAND ACQUI- TION	CONST	EQUIP / FURNISH	
275.0	Unknown	None		275.0	GCP						Unknown	1
275.0	Unknown	None		275.0	GCP						Unknown	2
750.0	Unknown	None		750.0	GCP						Unknown	3
40.0	Unknown	None		40.0	GCP						Unknown	4
5,000.0	Unknown	None		5,000.0	GCP						Unknown	5
325.0	Unknown	None		325.0	GCP						Unknown	6
400.0	Unknown	None		400.0	GCP						Unknown	7
200.0	Unknown	None		200.0	GCP						Unknown	8
7,265.0												
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